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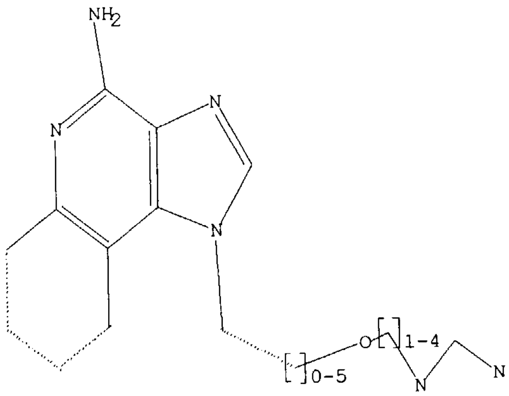

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Structure attributes must be viewed using STN Express query preparation.


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L4   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2004:291951  CAPLUS
DN   140:321358
TI   Preparation of imidazo[4,5-c]quinoline dimers as immune response modifiers
IN   Griesgraber, George W.
PA   3M Innovative Properties Company, USA
SO   PCT Int. Appl., 71 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND  DATE          APPLICATION NO.   DATE
     ---------------     ----  --------      ---------------   --------
PI   WO 2004028539       A2    20040408      WO 2003-US30372   20030925
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
             GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
             OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
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             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
             NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
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PRAI US 2002-413848P     P     20020926
GI
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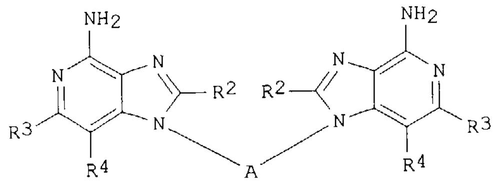

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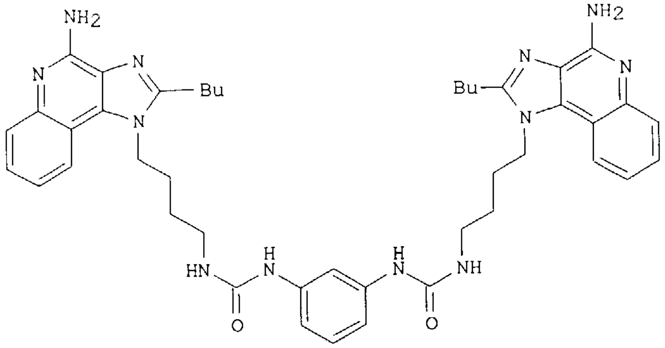


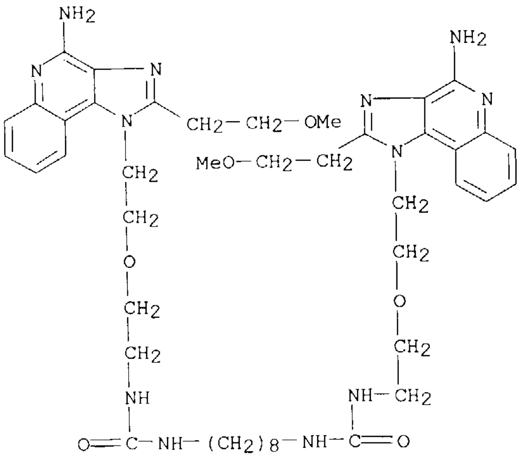
II

AB Title compds. I [wherein R2 = H, (un)substituted alkyl, alkenyl, (hetero)aryl, etc.; R3, R4 = independently H, halo, alkyloxy, alkenyl, alkylthio, amino, or R3R4 = (un)substituted (hetero)aryl ring; A = alkylene, alkenylene, alkynylene, etc.; and pharmaceutically acceptable salts thereof], and analogs (4 addnl. Markush structures), were prepared as immune response modifiers. For ex[illegible] butyl 1H-imidazo[illegible] CH2Cl2 under N2 at r.t., gave II [illegible] interferon α and tumor necrosis fa[illegible] human blood cell at concentratio[illegible] their pharmaceutical compns. induce cytokine biosynthesis [illegible] in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

IT **677354-11-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazo[4,5-c]quinoline dimers as immune response modifiers)

RN 677354-11-9 CAPLUS

CN 16-Oxa-2,11,13-triazaoctadecanamide, 18-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-12-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:532388 CAPLUS

DN 139:101126

TI Preparation of 4-amino-1-(ureidoethoxyethyl)imidazoquinolines as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease.

IN Crooks, Stephen L.; Griesgraber, George W.; Heppner, Philip D.; Merrill, Bryon A.

PA 3M Innovative Properties Co., USA

SO U.S. Pat. Appl. Publ., 43 pp., Cont.-in-part of U.S. Ser. No. 13,060. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003130518	A1	20030710	US 2002-164816	20020607
	US 6660735	B2	20031209		
	US 2003158192	A1	20030821	US 2001-13060	20011206
	US 6656938	B2	20031202		
	US 2004072858	A1	20040415	US 2003-675833	20030930
	US 2004072859	A1	20040415	US 2003-681814	20031007
	US 2004077678	A1	20040422	US 2003-680989	20031007
PRAI	US 2000-254218P	P	20001208		
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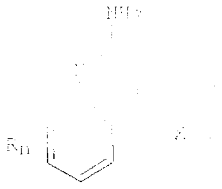
OS MARPAT 139:101126

GI



I

AB Title compds. [I; X = CHR5, CHR5A; A = alkylene, alkenylene; R1 = R4NR8CR3NR5ZR6A1, R4NR8CR3NR5R7, R4NR8CR3NR9ZR6A1; A1 = alkyl, alkenyl, aryl, heteroaryl, heterocyclyl; R2 = H, alkyl, alkenyl, aryl, heteroaryl, heterocyclyl, alkyl-Y-alkyl, alkyl-Y-alkenyl, alkyl-Y-aryl, alkyl, alkenyl substituted by ≥1 of: OH, halo, N(R5)2, CON(R5)2, CO-C1-10 alkyl, CO2-C1-10 alkyl, N3, aryl, heteroaryl, heterocyclyl, CO-aryl, CO-heteroaryl; R3 = O, S; R4 = alkyl, alkenyl, which may be interrupted by ≥1 O; R5 = H, C1-10 alkyl; R6 = bond, alkyl, alkenyl, which may be interrupted by ≥1 O; R7 = H, C1-10 alkyl which may be interrupted by a heteroatom; R7R5 = atoms to form a ring; R8 = H, C1-10 alkyl, arylalkyl; R4R8 = atoms to form a ring; R9 = C1-10 alkyl which can join together with R8 to form a ring; Y = O, S, SO, SO2; Z = bond, CO, SO2; n = 0-4; R = C1-10 alkyl, C1-10 alkoxy, OH, halo, CF3], were prepared Thus, title compound I (R1 = morpholinocarbonylaminoethyl; X = CH2CH2; R2 = Bu; R = null) (general preparation given) induced interferon and tumor necrosis factor in human cells at lowest effective concns. of 0.0001 µM and 0.1 µM, resp.

IT **437383-04-5P**, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N'-phenylurea **437383-05-6P**, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-6,7,8,9-tetrahydro-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N'-phenylurea **437383-06-7P**, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl-N'-phenylurea **437383-07-8P**, N-[2-[2-[4-Amino-2-(2-methoxyethyl)-6,7,8,9-tetrahydro-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl-N'-phenylurea **437383-10-3P**
437383-11-4P **437383-12-5P** **437383-13-6P**
437383-15-8P **437383-16-9P** **437383-17-0P**
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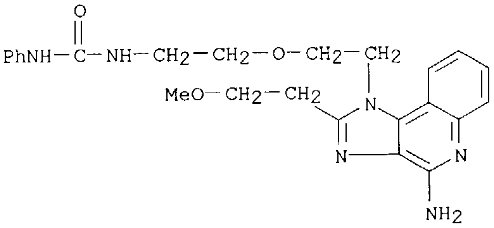
437383-45-4P 437383-46-5P 437383-47-6P
557787-30-1P 557787-31-2P 557787-32-3P
557787-33-4P 557787-34-5P 557787-35-6P
557787-36-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoureidoethoxyethylimidazoquinolines as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease)

RN 437383-04-5 CAPLUS
CN Urea, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N'-phenyl- (9CI) (CA INDEX NAME)



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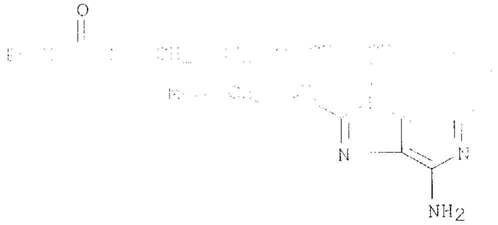
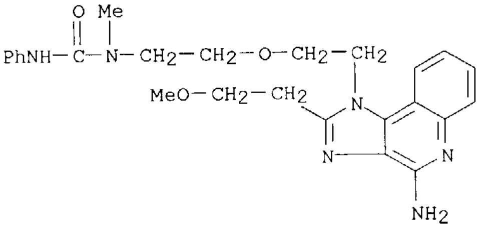


RN 437383-06-7 CAPLUS
CN Urea, N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl-N'-phenyl- (9CI) (CA INDEX NAME)



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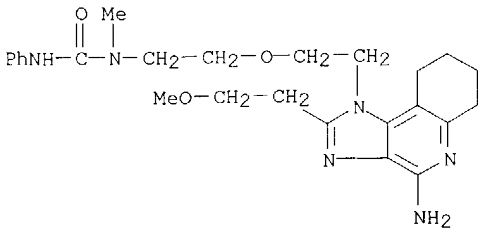
CN Urea, N-[2-[2-[4-amino-6,7,8,9-tetrahydro-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]-N-methyl-N'-phenyl- (9CI) (CA INDEX NAME)



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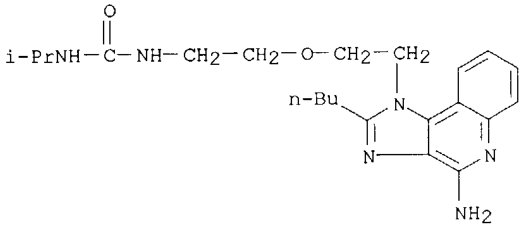
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



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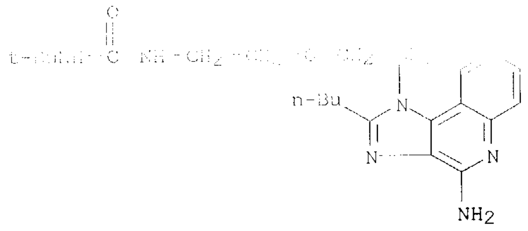
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



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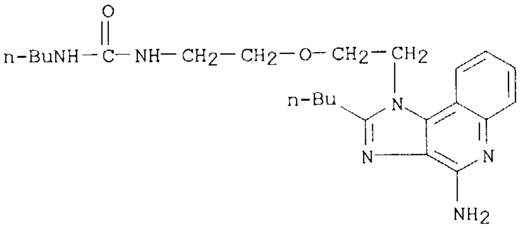
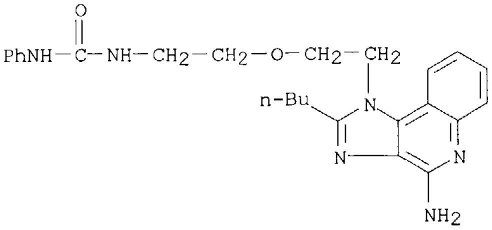


RN 437383-13-6 CAPLUS
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 437383-15-8 CAPLUS
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)

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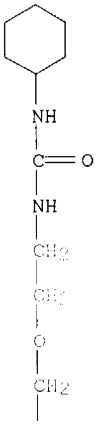

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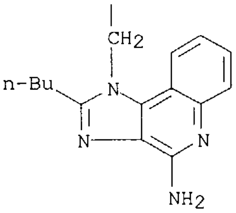

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CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(3-cyanophenyl)- (9CI) (CA INDEX NAME)

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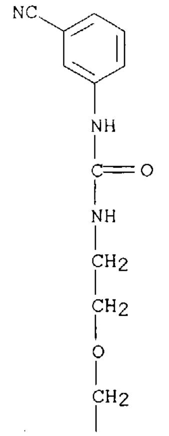

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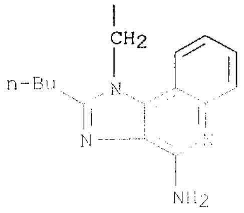

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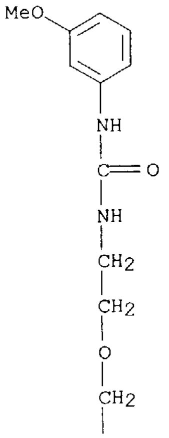

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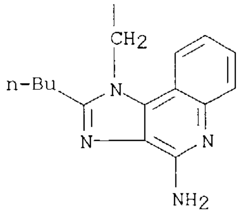
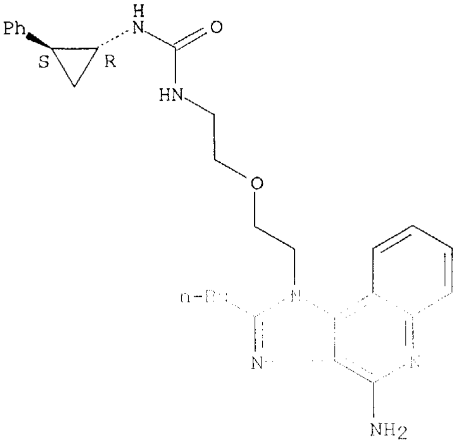


RN 437383-18-1 CAPLUS
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-[(1R,2S)-2-phenylcyclopropyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



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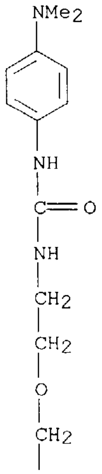

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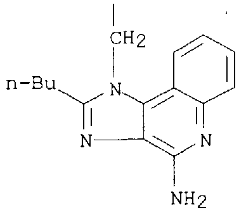

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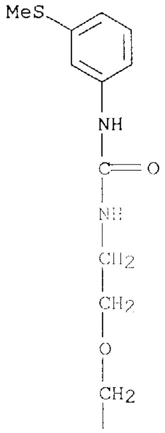
PAGE 1-A



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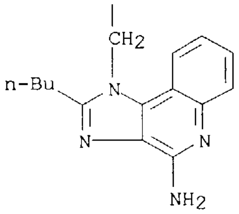

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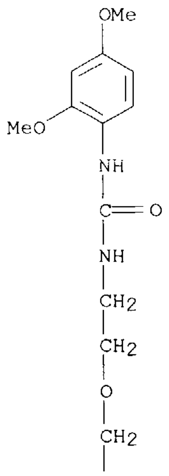

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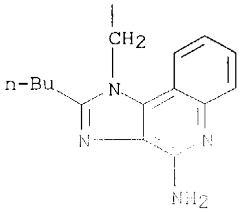
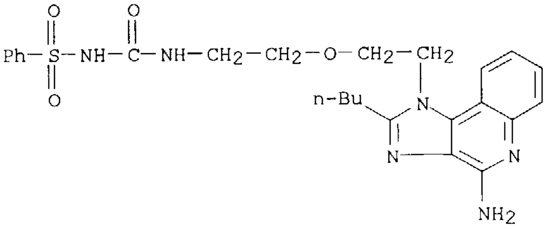


RN 437383-22-7 CAPLUS
CN Benzenesulfonamide, N-[[[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



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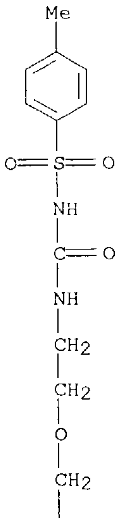
PAGE 1-A



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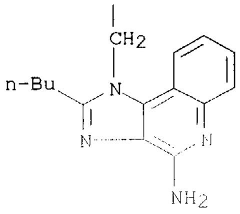
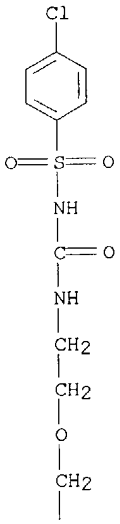


RN 437383-24-9 CAPLUS
CN Benzenesulfonamide, N-[[[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]-4-chloro- (9CI) (CA INDEX NAME)

PAGE 1-A



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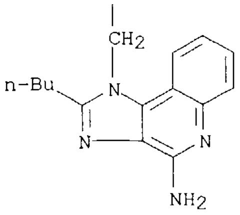

RN 437383-40-9 CAPLUS
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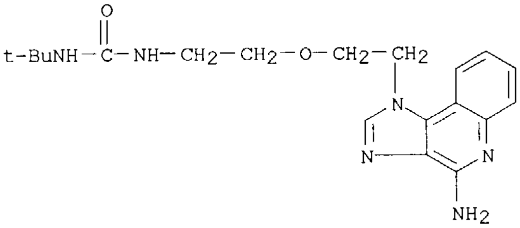

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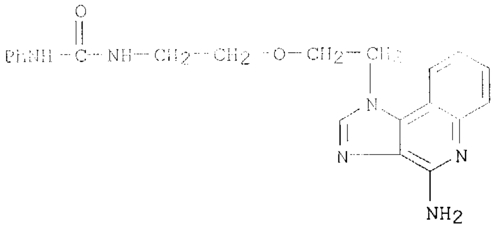

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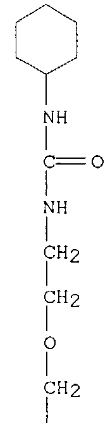
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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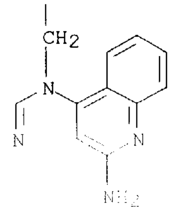
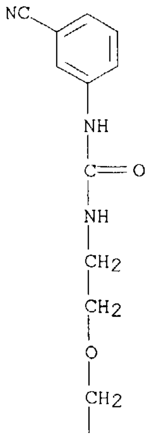


RN 437383-49-2 CAPLUS
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(3-cyanophenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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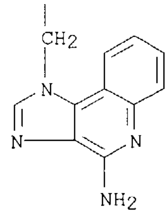
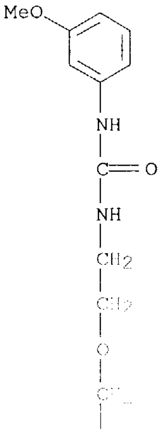


RN 437383-44-3 CAPLUS

CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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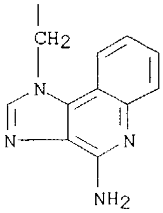

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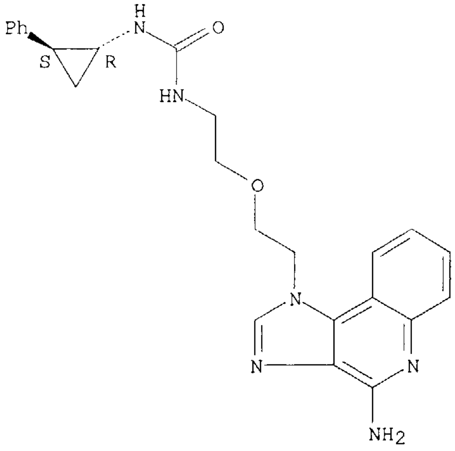
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-[(1R,2S)-2-phenylcyclopropyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



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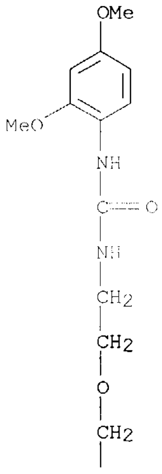
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(2,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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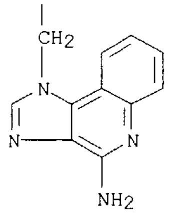

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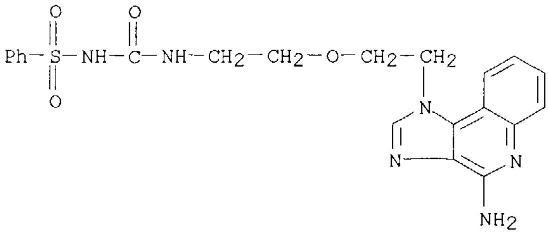
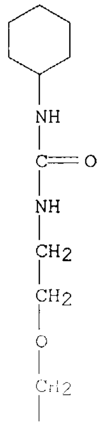
CN Benzenesulfonamide, N-[[[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 557787-30-1 CAPLUS

CN Urea, N-[2-[2-(4-amino-2-methyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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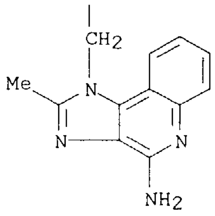

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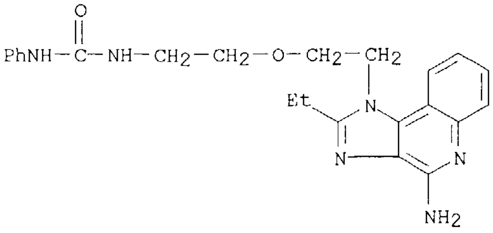
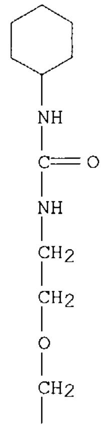


RN 557787-32-3 CAPLUS
CN Urea, N-[2-[2-(4-amino-2-ethyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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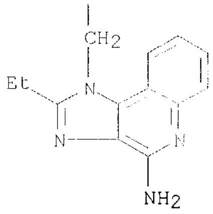

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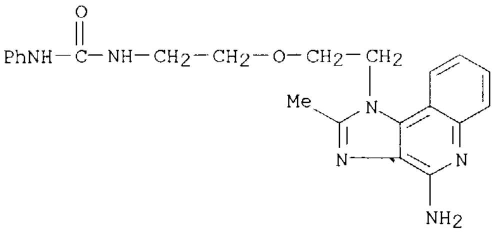

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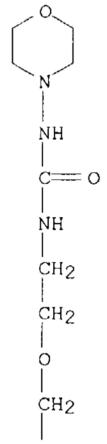
CN Urea, N-[2-[2-(4-amino-2-ethyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-4-morpholinyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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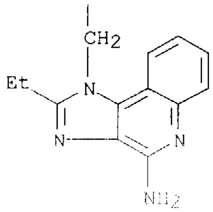

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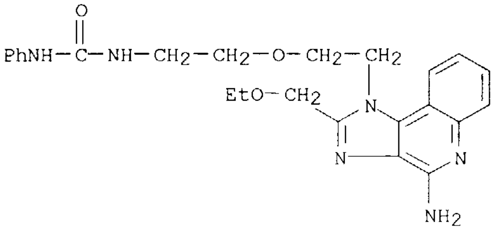

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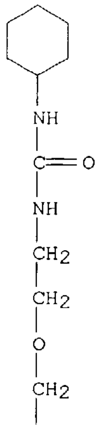
PAGE 1-A



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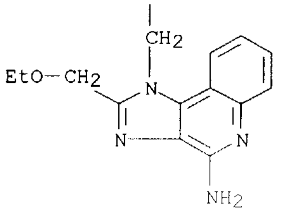

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DN   137:33298
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IN   Crooks, Stephen L.; Griesgraber, George W.; Heppner, Philip D.; Merrill,
     Bryon A.
PA   3M Innovative Properties Company, USA
SO   PCT Int. Appl., 71 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 11
     PATENT NO.          KIND  DATE          APPLICATION NO.   DATE
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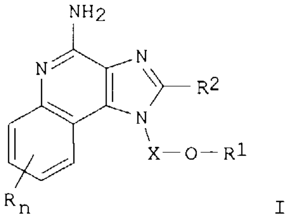

I

AB The title compds. [I; X = (CH2)2, CHEtCH2, etc.; R1 = R4NR8CR3NR5ZR6alkyl, R4NR8CR3NR5ZR6aryl, etc.; R2 = H, alkyl, aryl, etc.; R3 = O, S; R4 = alkylene or alkenylene which may be interrupted by one or more O atoms; R5 = H, alkyl; R6 = a bond, alkylene or alkenylene which may be interrupted by one or more O atoms; R8 = H, alkyl, aralkyl; or R4 and R8 can join together to form a ring; Z = a bond, CO, SO2; n = 0-4; R = alkyl, alkoxy, OH, etc.] that contain ether and urea functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of the urea I [X = (CH2)2; R1 = (CH2)2NMeCONHPh; R2 = (CH2)2OMe; n = 0] which showed the lowest concentration of 0.01 μM and 0.37 μM to induce interferon α and TNFα, resp., was prepared The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions [illegible] neoplastic diseases.

IT 437383-04-5P 437383-05-6P 437383-[illegible]
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437383-43-2P 437383-44-3P 437383-45-4P
437383-46-5P 437383-47-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of urea substituted imidazoquinoline ethers as immune response modifiers)

RN 437383-04-5 CAPLUS

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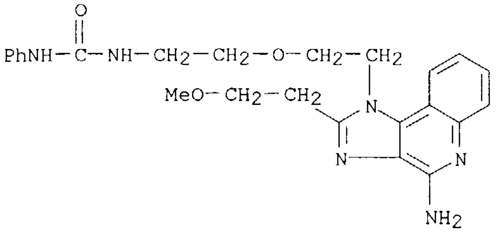

RN 437383-05-6 CAPLUS

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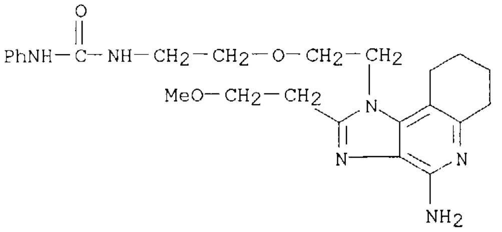

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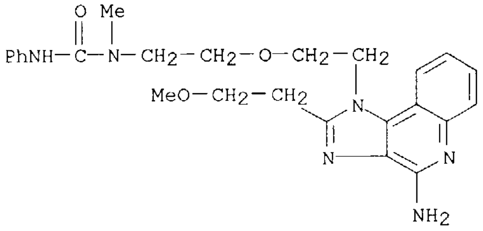

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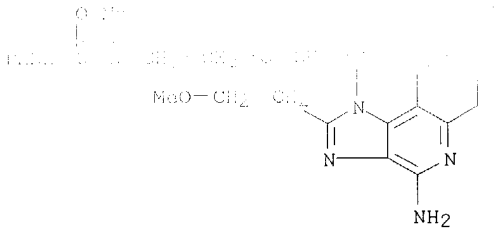

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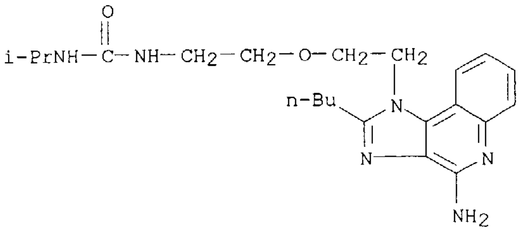
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(1-methylethyl)- (9CI) (CA INDEX NAME)



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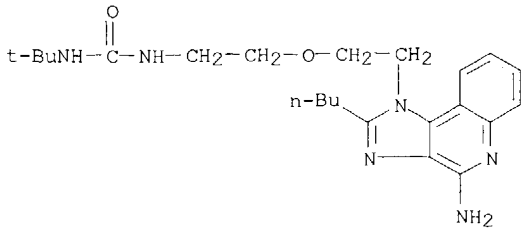
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



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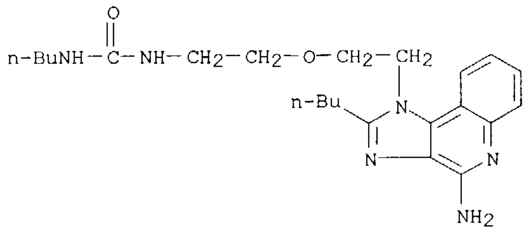

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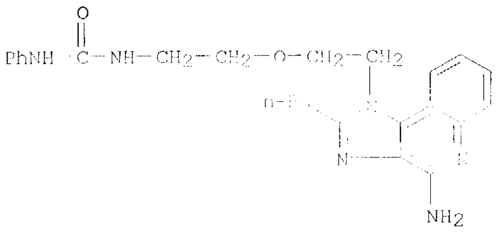

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CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)

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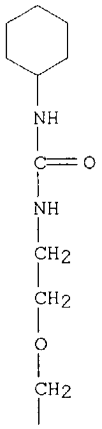

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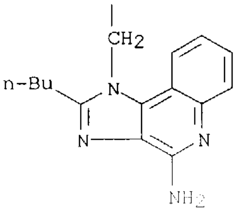

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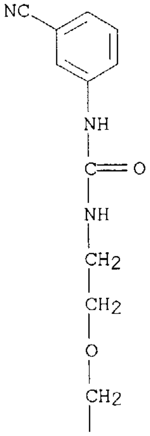

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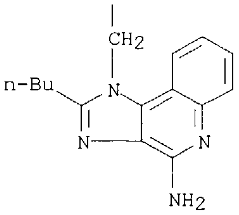

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CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

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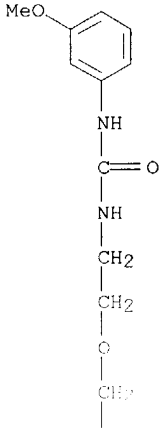

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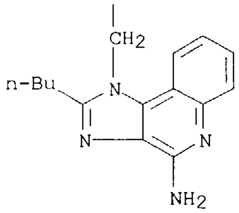
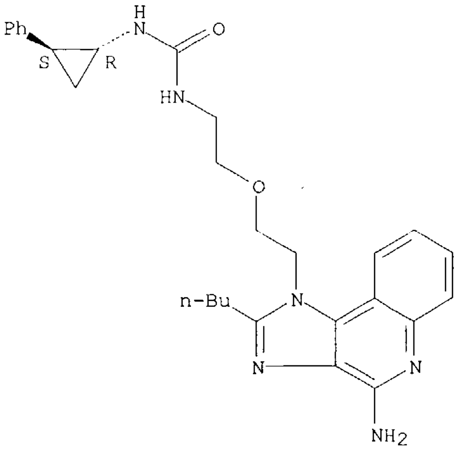


RN 437383-18-1 CAPLUS
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-[(1R,2S)-2-phenylcyclopropyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



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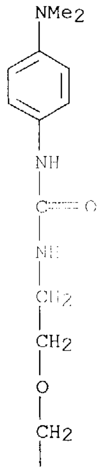
CN Urea, N-[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-[4-(dimethylamino)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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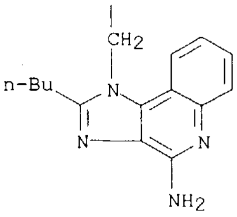

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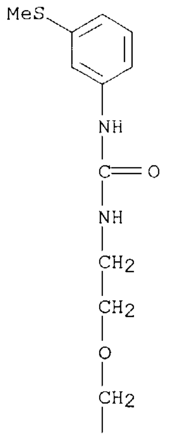
PAGE 1-A



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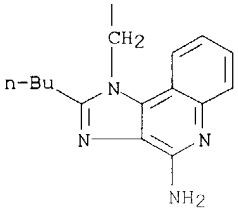

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CN Urea, N-[2-[2-(4-amino-2-butyl-1H-[illegible]yl)ethoxy]ethyl]-N'-(2,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME)

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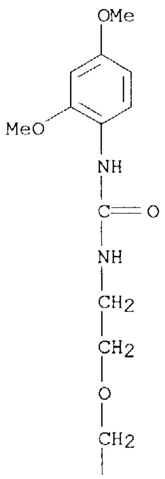

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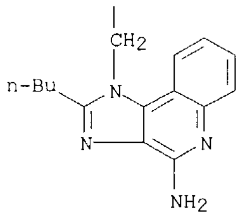

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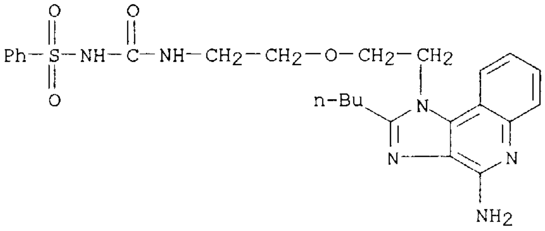
CN Benzenesulfonamide, N-[[[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 437383-23-8 CAPLUS
CN Benzenesulfonamide, N-[[[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)

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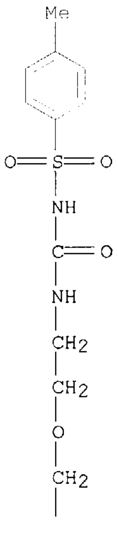

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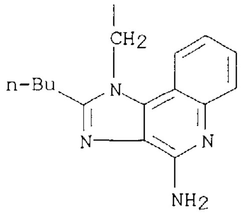

RN 437383-24-9 CAPLUS

CN Benzenesulfonamide, N-[[[2-[2-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]-4-chloro- (9CI) (CA INDEX NAME)

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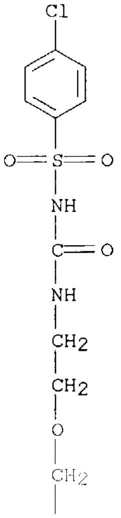

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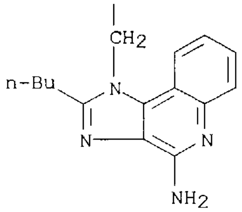
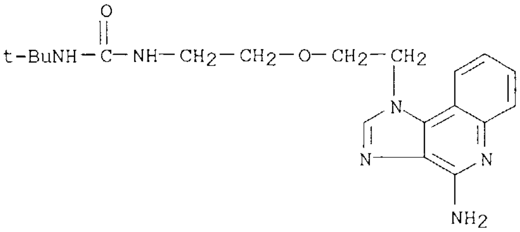
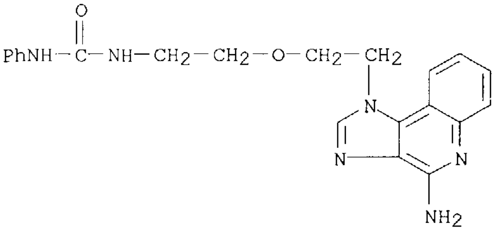


RN 437383-40-9 CAPLUS

CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 437383-41-0 CAPLUS
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-phenyl- (9CI) (CA INDEX NAME)



RN 437383-42-1 CAPLUS
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-cyclohexyl- (9CI) (CA INDEX NAME)

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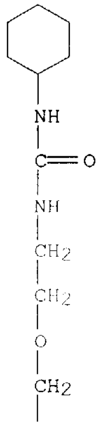

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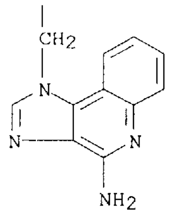

RN 437383-43-2 CAPLUS
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(3-cyanophenyl)- (9CI) (CA INDEX NAME)

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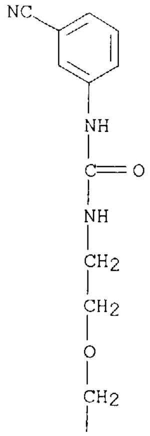

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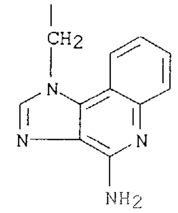

RN 437383-44-3 CAPLUS

CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(3-methoxyphenyl)- (9CI) (CA INDEX NAME)

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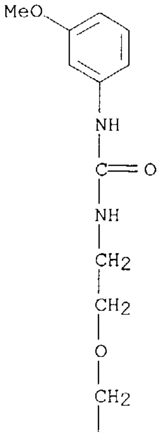

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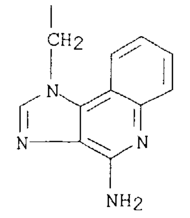
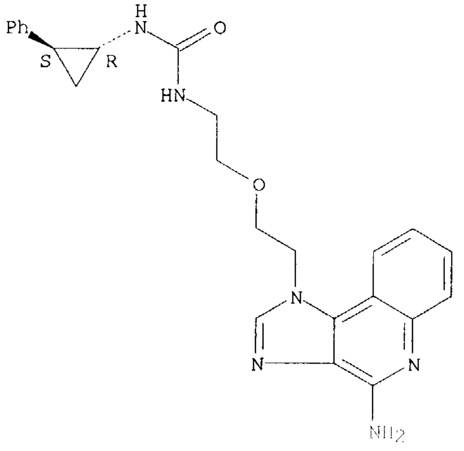


RN 437383-45-4 CAPLUS
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-[(1R,2S)-2-phenylcyclopropyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 437383-46-5 CAPLUS
CN Urea, N-[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]-N'-(2,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME)

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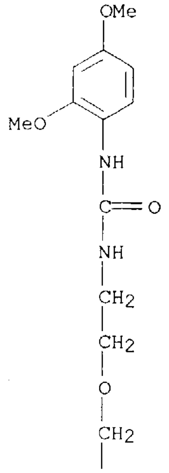

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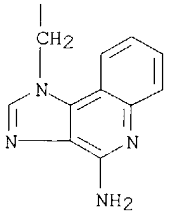
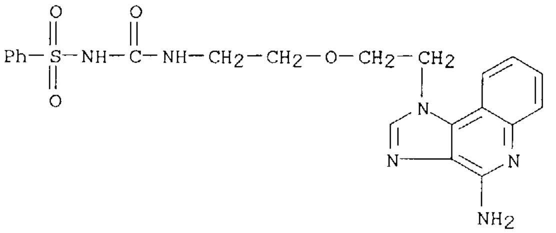


RN 437383-47-6 CAPLUS
CN Benzenesulfonamide, N-[[[2-[2-(4-amino-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



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